A fertilizer should be as unique as the golf course it nurtures. That’s why LESCO manufactures a complete line of top-quality sulfur-coated fertilizers in three distinct particle sizes. Elite, Mini, Standard.

**LESCO Mini-Particle Fertilizer**

Formulated for use on turf maintained at one-half inch or higher, the LESCO mini fertilizers provide three times as many particles per given area as the standard LESCO products. The mini particle size offers a uniform distribution pattern that provides even feeding and consistent greening.

**LESCO Elite Fertilizer**

Providing 11 times more particles per given area than standard LESCO fertilizers, the Elite products are formulated for use on turf maintained at a height of less than one-half inch. To enhance plant response and provide a more complete and balanced fertilization, iron and manganese are bonded to every sulfur-coated particle. Both the primary and the micronutrients are uniformly distributed to the plant because every sulfur-coated particle contains iron and manganese. And with LESCO Elite fertilizers, the chance of mower pickup is virtually eliminated.

**LESCO Standard-Particle Fertilizer**

Best suited for use on turf mowed above one inch, the LESCO line of standard products offers all the efficiencies and benefits of quality sulfur-coated fertilizers. Controlled nutrient release for up to 90 days provides consistent feeding and steady greening. Use of LESCO sulfur-coated fertilizers reduces the risk of burn and decreases the loss of nitrogen through leaching and volatilization.

Not all fertilizers are created equal. Choose the particle size that’s right for your course and talk to your LESCO sales representative about the wide variety of analyses available for quick shipment and forklift delivery from our Sebring, Florida production facility. And ask, too, about the new greens-grade soil amendments and fertilizer/control product combinations. LESCO has a fertilizer for your Florida golf course. Contact your sales representative or call (800) 825-3726 today.
Not all fertilizers are created equal.
You're on a mission that could decide the fate of your golf course. A mission against your toughest weeds: goosegrass, crabgrass, sandbur and many other broadleaf weeds. That's why you need a pre-emergence herbicide as powerful as Surflan. It puts an end to weeds before they start.

It's a challenge a lot of other herbicides run away from. But not Surflan. It stays put and waits. Three weeks if need be, without water. Then it won't wash out, even in heavy rainfall. And once activated, it forms a solid control zone that lasts up to 20 weeks.

So be in control this year. Take Surflan to the far reaches of your golf course and end the threat of problem weeds. See your Elanco distributor. Or call toll-free: 1-800-352-6776.

Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Dept. E-455, Indianapolis, IN 46285, U.S.A.
Surflan® — (oryzalin, Elanco)

**Surflan®**

*Its 20-week mission: seek out problem weeds and prevent their germination.*
When it comes to excellence in Florida golf course irrigation, you've got to hand it to DeBRA. We've just joined forces with America's oldest and most innovative irrigation equipment manufacturer: Buckner.

On the one hand, there's the Buckner COPS-4, a totally integrated computer irrigation system that operates totally off-line - using your own personal computer and our field controllers which can be used with, or independently of, your PC. Of course, the system allows communication between computer and field controllers and gives you state-of-the-art lightning protection.

On the other hand, there's the new Buckner pressure-regulated Electric or Hydraulic Valve-In-Head Cam Rotor which, when combined with the COPS-4, gives you the lowest-maintenance system available today. You can be sure Buckner heavy-duty cam rotors meet your water management requirements for low pressure and a high co-efficient of uniformity.

There's only one place in Florida to find these Buckner solutions to water management: DeBRA. So before you go anywhere else, give us a call or write for a brochure with complete specs. When it comes to quality, service and experience, DeBRA and Buckner definitely have the upper hand.
Destroy the evidence
or suffer the consequences.

The Cushman® Core Destroyer™
is the only effective means of providing
quality play soon after fairway aeration.
Use anything else and you'll have unhappy
golfers on your hands. If you're going
to aerate, do the whole job right. Get a
Cushman Core Destroyer and totally
pulverize cores at up to 6 mph.

Comes with FREE mowing deck.
Order a Cushman Core Destroyer and a
liquid-cooled gas or diesel Front Line
tractor before September 30, 1990, and
you can have your choice of a 60" or 72"
mowing deck free! It's the perfect way to
get maximum mileage out of a Front Line
tractor that's not afraid to go head-to-head
with anything else on the market.
For all the facts and a convincing
demonstration, contact your Cushman
dealer or call toll-free 1-800-228-4444 today.
The Everglades Chapter of the Florida Golf Course Superintendents Association wishes to thank the following sponsors of the 1990 Poa Annua Classic:

**Hole in One**
- B&W Golf Cars
- DeBra Turf & Industrial Equipment
- E. R. Jahna Industries
- Florida Irrigation Supply
- Lesco
- Liquid Ag Systems Inc.
- Neff Machinery
- Rhone-Poulenc Ag. Co.
- South Florida Turf
- Sunniland Corp.
- Van Waters & Rodgers
- Wesco Turf Inc.
- Wheeler Fertilizer

**Eagle**
- Ag Resources
- Asphalt Maint. Ent. Inc.
- Auto Flow/Systematic Service
- Boynton Pump & Irrigation Supply
- Central Florida Turf
- Dow Elanco
- Harrell’s
- Hunter Industries
- Milliken Chemical
- Mobay Corp.
- Nematode Controlers Inc.
- Northrup King Co.
- Southern Embroidery
- Sustane Corp.
- Total Care Tree Service
- Turf Merchants Inc.
- Woodbury Chemical

**Birdie**
- Andy’s Plant Aids, Inc.
- Golf Ventures, Inc.
- Lippold Turf & Golf Course Renovation
- Metro Electric Works
- Nutri-Turf, Inc.
- Sandland Equipment Co.
- The O.M. Scott & Sons Co.

**Par**
- Almar Chemical Co.
- AmerAquatic
- DuCor International Corp.
- Valent U.S. A. Corp.
NEWS ROUNDP - FTGA WANTS FACILITY AT UF ........................................... 13
The Florida Turfgrass Research Foundation wants to construct a $700,000 Envirotron on the UF campus in Gainesville. If the FTRF can raise $350,000 by March 15, the state will pay the rest.

COVER STORY - CORAL OAKS MUNICIPAL GOLF COURSE ...................... 25
The City of Cape Coral not only has an outstanding Arthur Hills layout; it didn't cost the taxpayers a dime.

FGCSA SPOTLIGHT - BEST OF BOTH WORLDS ........................................ 32
Pictorial visits to the South Florida GCSA Field Day and the Everglades GCSA Poa Annua Classic, plus a profile of the new maintenance technician for the research putting green at the UF's Fort Lauderdale Research and Education Center.

HANDS ON - REBUILD AND SAVE $200,000 ......................................... 36
Mechanics at Boca Woods CC saved their members more than $200,000 by rebuilding most of the club's maintenance equipment.

ARCHITECTS, ETC. - PRINCE OF NAPLES .............................................. 46
Arthur Hills doesn't get the recognition his work deserves, says architecture editor Brad Klein.

RESEARCH - GRAY WATER ON THE GREEN ....................................... 54
Graywater on the green and success of the mole cricket-fighting red-eyed fly in Bradenton are the top stories of the second quarter, says research editor Darcy Meeker.

SUPPLY SIDE - GOLF'S OWN IMAGINEER ............................................. 66
Walt Disney would have loved Tom Mascaro. He's the turf industry's own "Imagineer."

AFTERWORDS - FLORIDA'S DROUGHT ................................................. 77
The days of unlimited water use are over and treated effluent is the best hope for irrigating golf courses, says editorial consultant Dan Jones, CGCS.
The Florida Green
Official Voice of the Florida Golf Course Superintendents Association

editor Joel D. Jackson, CGCS
Isleworth CC, Windermere
Address Florida Green business to:
6780 Tamarind Circle, Orlando, FL 32819
(407) 363-4514

assistant editor Tom Benefield, CGCS
Ballenasles CC of Palm Beach Gardens, FL 33418
(407) 622-0177

FGCS publications chairman Ray Hansen
Del Aire CC, Delray Beach, FL 33445
(407) 495-0536

Janlark Communications
Janlark Communications, Inc., publishes The Florida Green on behalf of the Florida Golf Course Superintendents Association, which sets all policies. Day-to-day business of the magazine is conducted by Janlark.

publisher/executive editor Larry Kieffer
copy editor Janet Kieffer
architecture editor Brad Klein
research editor Darcy Meeker
editorial consultant Dan Jones, CGCS

Resources
photography Brian Everhart
layout and graphics earthbase, inc.
typesetting Typesetting Today, Inc.
color separations Dimension, Inc.
printer Phoenix Press, Inc.

COPYRIGHT NOTICE: Copyright 1990, Janlark Communications, Inc. All rights reserved. May not be reproduced in whole or in part without written permission of the publisher. EXCEPTION: Official publications of all golf course superintendent associations affiliated with the Florida Golf Course Superintendents Association of America are welcome to use any material contained herein provided they give credit and copyright notice.

ADVERTISING: For rates and information, contact Janlark Communications, Inc. Fall issue closes Aug. 15; Winter issue closes Dec. 1.

EDITORIAL: Opinion columns and letters to the editor should be directed to the superintendent-editor, Joel Jackson, CGCS. News releases and other inquiries should be directed to Janlark Communications. Unsolicited manuscripts and photographs cannot be returned.

POSTMASTER: Address correction requested. Please send all address corrections to Florida Golf Course Superintendents Association, 1760 NW Pine Lake Drive, Stuart, FL 34994.

JANLARK COMMUNICATIONS, INC.
1206 Kimberle Court, Auburndale, FL 33823
813-967-1385 Fax 813-965-1734

Welcome (back)!
The following companies are advertising in The Florida Green for the first time... or, in some cases, have returned to our pages after an absence of a year or more.

American Cyanamid .......................... 42
AmerAquat .................................. 64
Amek ........................................ 47
Aquatic Systems ................................ 53
Aquatrols ................................... 18
Atlantic GFC ................................ 69
Carroll Childers .............................. 63
Central Florida Turf ..................... 61
Chemical Containers ...................... 62
Club Car .................................... 11
Cushman ..................................... 42,26
DeBra Turf Equipment .................. 3,60
Delray Stake ................................ 8
DNA Enterprises ............................ 18
Douglas Products .......................... 14
Dow Elanco ................................ 2,4,5-C-5
DuCor Chemical ............................ 61
Duda Sod ................................... 53
Estech ........................................ 39
Everglades GCSA ......................... 5
FiltoMat ....................................... 20
FloridaNurseryman ....................... 78
Florida Plant Clinic ...................... 73
Florida Waterway Mgt ................... 62
Florida Sillica Sand ....................... 73
FTGA ........................................ 76
Golf Ventures ................................ 10
Haverland Blackrock ...................... 12
Hector Turf ................................ 35
Hertz Equipment Rental ................. 35
Hoechst Roussel ......................... 51
Jahna Sand ................................ 16
Lake Doctors ................................ 8
Lantana Peat & Soil ....................... 72
Lebanon Chemical ......................... 15
Lesco ........................................ 1,4-C-5
Liquid Ag .................................. 21
Lofts Seed .................................. 57
Mike Young Designs ...................... 70
Milliken Chemical ......................... 31
Mobay ....................................... 58
Northrup King ............................. 40
Nutri-turf .................................. 8
Prosed ..................................... 64
Rayside Truck .............................. 41
Rhine-Poulenc ............................. 24
Snapp Tree Service ....................... 56
South Florida Grassing ................... 19
South Florida Turf Products ....... 68
Southern Concrete & Paving ...... 79
Spread Rite ................................ 73
Standard Sand & Silica ................. 42
Sunniland ................................... 29
Sustane Corp ................................ 70
Tom Burrows Turfgrass Svc ....... 73
Turfmark ................................... 49
Valent ...................................... 33,43
Wesco Turf .................................. 68
Wholesale Landscape Supply ....... 71
Woodbury Chemical ..................... 17
Zaun ....................................... 56

FTGA ........................................ 76
Golf Ventures ................................ 10
Haverland Blackrock ...................... 12
Hector Turf ................................ 35
Hertz Equipment Rental ................. 35
Hoechst Roussel ......................... 51
Jahna Sand ................................ 16
CYPRESS MULCH

Economical Bulk Loads
or Convenient Bags

Wood Stakes
• Surveying
• Construction
• Landscaping
• Farming

DELRAY STAKE AND SHAVINGS INC.
9500 W. Atlantic Ave.
Delray Beach, Florida 33446
(305) 737-8458

Lakes have feelings too. Treat ’em right.

WE PROVIDE:
aquatic weed and algae control
lake clarification
fountains, parts and installation
fish stocking
aquascaping
free estimates

Serving Florida Statewide
1-800-666-5253

The Lake Doctors, Inc.
Aquatic Management Services

Premium Quality Sod & Sprigs

Nutri-Turf, Inc.
ONE OF THE ANHEUSER-BUSCH COMPANIES

This Turf’s For You!

• Premium Grade Tifgreen (328)
• Premium Grade Tifway (419)
• Premium Grade Tifdwarf
• Premium Grade Tifway II

16163 Lem Turner Road
Jacksonville, FL 32218-1550
(904) 764-7100
1-800-329-TURF (In Florida)
Research and communication will win the day

The challenges to our industry to show that we are properly managing turfgrass in an environmentally sound manner are accelerating at a phenomenal pace. We must continue to demonstrate our professionalism through responsible management practices and through our involvement with our associations to help educate our legislators and the general public. We must seek alternative methods and resources, and be ready to change our practices if research dictates that changes are needed.

We are suffering the slings and arrows of ambiguous, ill-conceived regulations and sensationalistic journalism. The current factual data is on our side, but we need more! Our current research efforts are focused in that direction to help allay the fears of the public. We will continue to communicate to them what an amazing, beneficial ecosystem a properly maintained and operated golf course provides.

The pressure on golf course superintendents is increasing. Golfers, club members, managers, and owners must also be aware of this pressure. This is the time to strengthen the relationship between the club and the superintendent. This is no time to sweep issues under the carpet, hoping they will go away. The liability factor is closing in on all operations, and everyone needs to be aware of his legal responsibilities. Setting up organized, positive programs established to comply with current laws will reap the reward of improved communications within the club and help avoid potential crippling fines and negative publicity.

There is no greater time than the present for superintendents to become more involved in their local and national associations. There continues to be an unwarranted number of unbelievable stories of instances of ignorance and malpractice in our industry. There just isn’t more room for those kinds of errors of omission or deliberate circumvention of label restrictions or other regulations. Make sure you or your superintendent is a member of his local association and that things are in order or are being put in order.

By the time this issue is in your hands, I will have only a few days left in my term as president. It certainly has been an eventful year for me, beginning with open-heart surgery in the fall, hosting the GCSAA Conference and Show in the winter, and assuming editorship of the Florida Green in the spring. Those events, coupled with the ongoing challenge of managing bentgrass greens

continued on page 12
The best in the business... of Golf

To be a golf course superintendent you need the skill of a brain surgeon, the predictable performance of a weather forecaster, and the product knowledge of Golf Ventures.

If it's golf course related and you need it, we have it.
If not, we'll get it!
We service over 500 of the finest golf courses in Florida and S.E. Georgia.

THE BEST IN THE BUSINESS OF PRESERVING YOUR GOLF COURSE INVESTMENT

FERTILIZERS & SOIL AMENDMENTS

Lykes Agri Sales
Ringer Turf Products
Liquid Ag Systems Inc.
Dakota Reed - Sedge Peat

CHEMICALS

Helena Chemical Co.

SEED

Pickseed West Inc.

EQUIPMENT

Club Car Carryall
Daihatsu Hijet
Florida Sprayers Inc.
Crosley Trailers
Easy Picker Driving Range Vehicles

ACCESSORIES

Cylex Granite Signs
Southern Screen & Embroidery Flags
Standard Golf Co.
Lewisline American Eagle
Par Aide Products
Fox Valley Marking Paints
Rainjet Fountains
Lundrain Drainage Material
Spyker Spreaders
Master of the Links Wood Products
Hole-in-White (Cup Brightener)
Clover Lapping Compound
Pagecom Radius Radios
RedMax Reciprocators

2582 OLD COMBEE ROAD • LAKELAND, FL 33805
1-800-330-8874 • (813) 665-5800 • Fax 667-0888

Golf Ventures
a complete line of golf course products